

**BY ORDER OF THE COMMANDER  
22D AIR REFUELING WING**

**MCCONNELL AIR FORCE BASE  
INSTRUCTION 21-111**



**26 APRIL 2012**

***Maintenance***

***FUNCTIONAL CHECK FLIGHTS,  
OPERATIONAL CHECK FLIGHTS,  
CONFIDENCE FLIGHTS AND HIGH SPEED  
TAXI CHECKS***

**COMPLIANCE WITH THIS PUBLICATION IS MANDATORY**

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This McConnell Air Force Base Instruction (MAFBI) establishes procedures and responsibilities to accomplish functional and operational check flights (FCF and OCF), confidence flights (CF) and high speed taxi (HST) checks to ensure aircraft air worthiness in accordance with applicable -6 and -1 technical orders. It implements/augments TO 1-1-300, *Acceptance/Functional Check Flight and Maintenance Operational Checks*; AFI 11-401, *Aviation Management*; TO 1C-135A-6, *Special Inspections* and AFI 21-101, *Aircraft and Equipment Maintenance Management*; and TO 00-20-1, *Aerospace Equipment Maintenance Inspection, Documentation, Policy and Procedures*. Reference AFI 21-101 for definitions of FCF, OCF and HST. This instruction is applicable to all agencies operating within the 22d Air Refueling Wing. Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with (IAW) Air Force Manual (AFMAN) 33-363, *Management of Records*, and disposed of IAW with the Air Force Records Information Management System (AFRIMS) located at <https://www.my.af.mil/afirms/afirms/afirms/rims.cfm>. Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) using the AF Form 847, *Recommendation for Change of Publication*; route AF Form 847s from the field through the appropriate functional's chain of command.

**SUMMARY OF CHANGES**

This document has undergone annual review and is being updated for minor corrections. Content added to para 2.2.2, para 2.2.3 moved to para 2.2.4, content added to para 2.2.3, para

2.2.4 moved to para 2.2.5, para 2.2.5 moved to para 2.2.6, content changed in para 2.2.6, para 2.3.1 content changed, para 2.3.2 content changed, para 2.4.1 content changed, content added to para 2.4.2, para 2.4.3 content changed, para 2.4.4 deleted, para 2.5.4 content changed, para 3 added, para 4 added, attachment 1 moved to attachment 2, content added to attachment 1.

## **1. Definition**

1.1. A confidence flight (CF) is an “as required” flight, requested by the Maintenance Group Commander or Deputy Commander (MXG/CC/CD) or engineer disposition that is scheduled after major maintenance not requiring an FCF or OCF as outlined in -6 series technical order.

## **2. Responsibilities/Procedures**

2.1. The MXG/CC and Operations Group Commander (OG/CC) have joint responsibility for the FCF program. The decision to fly a full profile FCF will be at the discretion of the MXG/CC and OG/CC (or designated equivalent). It is the responsibility of all maintenance and operations personnel to ensure a safe and effective FCF, OCF, CF and HST check program. MXG Quality Assurance (QA) is the maintenance focal point for all FCF, OCF, CF and HST check matters. The OG/OGV will be the operations focal point.

2.2. The applicable production supervisor (pro super) from the Aircraft Maintenance Squadron (22 AMXS, 931 AMXS) or Maintenance Squadron (22 MXS, 931 MXS) will:

2.2.1. Coordinate with Maintenance Plans, Scheduling and Documentation (PS&D) for fuel configuration and required maintenance personnel for flight.

2.2.2. Provide the PS&D section and QA with the required flight profile to accomplish the FCF, OCF, CF and HST Report 22 MXG Form 6 (Attachment 2).

2.2.3. Coordinate with OG/OGV at least one week prior to scheduling an FCF flight. To ensure qualified crews are available to perform required checks.

2.2.4. Evaluate all aircraft undergoing isochronal inspection, cannibalization, refurbishment (equipment excellence) or any unusual occurrence/aircraft discrepancy for an FCF, OCF, CF or HST check.

2.2.5. Ensure minimum inspection requirements of a preflight or thru-flight inspection are accomplished prior to all FCF, OCF, CF and HST checks.

2.2.6. Coordinate with QA to meet at aircraft one day prior to FCF, OCF, or HST check for an aircraft forms review.

2.3. The PS&D section will:

2.3.1. Coordinate the flight or taxi check with the OG to ensure qualified crews are available to perform required checks.

2.3.2. Place a copy of 22 MXG Form 6 (Attachment 2) in the aircraft's jacket file. This information will not be removed until replaced by the next package or 90 days, whichever occurs first.

2.3.3. Inform QA if FCF, OCF, CF or HST check is rescheduled.

2.4. QA will:

- 2.4.1. Brief aircrew prior to and upon conclusion of each FCF, OCF, CF and HST check.
- 2.4.2. Forward a copy of 22 MXG Form 6 (Attachment 1) to PS&D section.
- 2.4.3. Keep a log of all FCF, OCF, CF and HST checks to include tail number, reason for flight and results of the flight.
- 2.5. The 22 OG/OGV will:
  - 2.5.1. Maintain updated FCF checklists.
  - 2.5.2. Identify required aircraft configuration, special requirements, and provide additional information to PS&D.
  - 2.5.3. Sign-off all FCF, OCF, CF and HST checks in the AFTO Form 781A, *Maintenance Discrepancy and Work Document*; when the operational checks are complete and satisfactory. If FCF, OCF, CF or HST checks fail, document the aircraft forms to reflect any and all pertinent information surrounding the failure.
  - 2.5.4. Complete the 22 MXG Form 6 (Attachment 2) and return both to QA at debrief.

RICKY N. RUPP, Colonel, USAF  
Commander

**Attachment 1****GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFMAN 33-363, *Management of Records*, 1 March 2008

T.O. 1-1-300, *Acceptance/Functional Check Flight and Maintenance Operational Check*

AFI 11-401, *Aviation Management*, 7 March 2007

1C-135A-6, *Special Inspections*

AFI 21-101, *Aircraft and Equipment Maintenance Management*, 26 July 2010

T.O. 00-20-1, *Aerospace Equipment Maintenance Inspection, Documentation, Policy and Procedures*

***Prescribed Forms***

22 MXG Form 6

***Adopted Forms***

AF IMT 847, *Recommendation for Change of Publication*

AFTO Form 781A, *Maintenance Discrepancy and Work Document*

***Abbreviations and Acronyms***

**AF**—Air Force

**AMXS**—Aircraft Maintenance Squadron

**CC**—Commander

**CD**—Deputy Commander

**CF**—Confidence Flights

**FCF**—Functional Check Flights

**HST**—High Speed Taxi

**MAFBI**—McConnell Air Force Base Instruction

**MXG**—Maintenance Group

**MXS**—Maintenance Squadron

**OCF**—Operational Check Flight

**OG**—Operations Group

**OPR**—Office of Primary Responsibility

**PS&D**—Maintenance Plans, Scheduling and Documentation

**QA**—Quality Assurance

## Attachment 2

## OPERATIONAL CHECK-OUT OF IN-FLIGHT SYSTEM REPORT

Figure A2.1. Operational Check-Out of In-Flight System Report

F.C.F. <input type="checkbox"/>		O.C.F. <input type="checkbox"/>		H.S.T. <input type="checkbox"/>		CONFIDENCE FLIGHT <input type="checkbox"/>	
SECTION I							
1. REPORT NUMBER		2. MDS		3. A/C TAIL NUMBER		4. OWNING ORGANIZATION/FLIGHT	
5. DATE		6. AFTO 781A ENTRY PG:                      ITEM:                      DATE:				7. JOB CONTROL NUMBER	
SECTION II BRIEFING							
1. REASON FOR CHECK:							
2. PREVIOUS MAINTENANCE PROBLEMS/DISCREPANCIES:							
3. FLIGHT PROFILE REQUIRED FOR FLIGHT:							
4. REQUIRED AIRCRAFT CONFIGURATION AND SPECIFIC MAINTENANCE PREPARATIONS:							
5. QA REPRESENTATIVE		6. WEIGHT AND BALANCE VERIFIED YES <input type="checkbox"/> NO <input type="checkbox"/> N/A <input type="checkbox"/>			7. FORMS DOCUMENTATION VERIFIED YES <input type="checkbox"/> NO <input type="checkbox"/>		
8. PILOT		9. COPILOT			10. BOOM OPERATOR		
SECTION III DEBRIEFING							
1. DATE		2. TIME		3. TAKE OFF		4. LANDING	
5. QA REPRESENTATIVE							
6. MAINTENANCE REPRESENTATIVE			7. DEBRIEFER			8. AIRCRAFT RELEASED YES <input type="checkbox"/> NO <input type="checkbox"/>	
9. FORMS SIGNED OFF YES <input type="checkbox"/> NO <input type="checkbox"/>		10. DISCREPANCIES ENTERED IN FORMS YES <input type="checkbox"/> NO <input type="checkbox"/>				11. FILED IN PROGRAMS FOLDER YES <input type="checkbox"/> NO <input type="checkbox"/> DATE:	
12. INFLIGHT DISCREPANCIES RELATED TO CHECK (Include JCN).							